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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/573,646

11/21/2006

Hiroaki Mizushima

062338

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38834

7590

04/20/2010

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EXAMINER

CHAPEL, DEREK S

ART UNIT

PAPER NUMBER

2872

NOTIFICATION DATE

DELIVERY MODE

04/20/2010

ELECTRONIC

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentmail@whda.com

<b>Office Action Summary</b>	<b>Application No.</b> 10/573,646	<b>Applicant(s)</b> MIZUSHIMA ET AL.	
	<b>Examiner</b> DEREK S. CHAPEL	<b>Art Unit</b> 2872	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 21 January 2010.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-12 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-12 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 28 March 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |                                                                                     |                                                                   |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                    | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)         | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____                                                         | 6) <input type="checkbox"/> Other: _____                          |

## DETAILED ACTION

### *Status Of Claims*

1. This Office Action is in response to an amendment received 1/21/2010 in which Applicant lists claims 2, 4-9 and 11 as being original, claims 3 and 12 as being previously presented, and claims 1 and 10 as being currently amended. It is interpreted by the examiner that claims 1-12 are pending.

### ***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was

Art Unit: 2872

not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. Claims 1, 2, 4 and 10-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Racich et al., U.S. Patent Number 4,591,512, of record (hereafter Racich) in view of Nakane et al., U.S. Patent Number 5,374,972, of record (hereafter Nakane).

6. As to claims 1, 4 and 10, Racich discloses a method and apparatus for producing a polarizing film (see at least figure 1 and the abstract), comprising:

playing out a film from a roll of raw film (see at least figure 1, elements 10 and 66);

dyeing the film (see at least figure 1, element 20 as well as column 2, lines 50-68);

stretching the film (see at least column 3, line 53 through column 4, line 13), wherein the film is vertically aligned and dipped into at least one type of processing liquid (see at least figure 1 where the film goes from a horizontal alignment to a substantially vertical alignment while passing into the processing tank '20').

Racich does not specifically disclose a plurality of films horizontally aligned in a vertical fashion that are dipped simultaneously into the at least one processing liquid without contacting each other.

However, Nakane teaches that it is known to simultaneously process a plurality of films, which are horizontally aligned in a vertical fashion (see at least figure 2 of

Art Unit: 2872

Nakane where the films are horizontally aligned into the page and are in a vertical fashion while passing into the processing bath '40'), through at least one processing liquid without the films contacting each other (see at least figure 2, elements P1, P2, 40, 50 and 60 of Nakane).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Racich to include the teachings of Nakane so that a plurality of films, which are horizontally aligned in a vertical fashion, are played out from a plurality of rolls and are dipped simultaneously into at least one processing liquid without contacting each other, for the purpose of conserving processing time and liquids by processing multiple films simultaneously.

7. As to claims 2 and 11, Racich in view of Nakane discloses that the number of films is 2 to 4 (see at least figure 2 of Nakane).

8. As to claim 12, Racich in view of Nakane discloses a total stretch ratio from 3.0 to 7.0 in the stretching (see at least column 4, lines 8-11 of Racich).

9. Claims 3, 5, 6, 7, 8 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Racich et al., U.S. Patent Number 4,591,512, of record (hereafter Racich) in view of Nakane et al., U.S. Patent Number 5,374,972, of record (hereafter Nakane) as applied to claims 1, 2, 4 and 10-12 above, and further in view of Kondo et al., U.S. Patent Application Publication Number 2002/0182427 A1, of record (hereafter Kondo).

Art Unit: 2872

10. As to claim 3, Racich in view of Nakane discloses that the films are polyvinylalcohol (PVA) dichroic films (see at least the abstract of Racich) which is dyed (see at least figure 1, element 20 as well as column 2, lines 50-68 of Racich) and then uniaxially stretched in the stretching step (see at least column 3, line 53 through column 4, line 13 of Racich).

Racich in view of Nakane does not specifically disclose that the polyvinylalcohol film is processed in a processing liquid containing a dichroic substance.

However, Kondo teaches a PVA polarizing film that is dyed with a dichroic dyestuff (see at least paragraphs [0007], [0013] and [0027] of Kondo).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the dyeing step of Racich in view of Nakane to include the teachings of Kondo so that the PVA film is dyed with a dichroic substance in the dyeing step, for the purpose of increasing the dichroic effects of the PVA film.

11. As to claims 5, 6, 7, 8 and 9, Racich in view of Nakane does not specifically disclose that an optical layer is provided on at least one side of the polarizing film or that the polarizing film is used in a liquid crystal panel or image display.

However, Kondo teaches a PVA polarizing film for use with a liquid crystal display (see at least paragraphs [0004], [0007] and [0014] of Kondo).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the polarizing film of Racich in view of Nakane to include the teachings of Kondo so that an optical layer is provided somewhere on at

Art Unit: 2872

least one side of the polarizing film for the purpose of using the polarizing film in a liquid crystal panel or image display to improve contrast and polarize light viewed by the user.

It is noted that in claims 8 and 9, the limitations “produced by an in-house production method” are process limitations in a product claim (i.e. product by process) and are therefore not given any significant patentable weight as per MPEP 2113:

*“Even though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process.”*

### ***Response to Amendment***

14. The declaration under 37 CFR 1.132 filed 1/21/2010 is insufficient to overcome the rejection of claim 1 based upon Racich and Nakane as set forth in the last Office action because: the fact that the films swell and **could** touch when placed next to each other would be well known to one of ordinary skill in the art, and therefore, the films would be spaced apart sufficiently to allow for the swelling with the films coming into contact with one another.

### ***Response to Arguments***

12. Applicant's arguments filed 1/21/2010 have been fully considered but they are not persuasive.

13. Applicant's argument that Racich and Nakane do not disclose the films being horizontally aligned in a vertical fashion is not persuasive. As mentioned in the

Art Unit: 2872

rejections above, the films are horizontally aligned into the page of figure 2 of Nakane and have a vertical alignment while entering the processing baths in Racich and Nakane. The claims are not limited to rolls of films that are stacked on top of one another, where separate rollers are used for processing each roll of film, or that the films are stacked one on top of the other without touching throughout processing.

### ***Conclusion***

14. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

15. Any inquiry concerning this communication or earlier communications from the examiner should be directed to DEREK S. CHAPEL whose telephone number is (571)272-8042. The examiner can normally be reached on M-F 10:30am-7:00pm.



Art Unit: 2872

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephone B. Allen can be reached on 571-272-2434. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/D. S. C./  
Examiner, Art Unit 2872  
4/13/2010

/Stephone B. Allen/  
Supervisory Patent Examiner  
Art Unit 2872